PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference F50019PCT	FOR FURTHER ACTION	See item 4 below
International application No. PCT/EP2004/010402	International filing date (day/month/year) 16 September 2004 (16.09.2004)	Priority date (day/month/year) 16 September 2003 (16.09.2003)
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237	
Applicant RATIONAL AG		

1.	This international preliminary rep International Searching Authority		() is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total of	of 9 sheets, including this cov	er sheet.
	In the attached sheets, any referent to the international preliminary re		he International Searching Authority should be read as a reference f) instead.
3.	This report contains indications re	elating to the following items:	:
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opini applicability	on with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the interr	national application .
	Box No. VIII	Certain observations on the	international application
4.	The International Bureau will connot, except where the applicant mate (Rule 44bir .2).	mmunicate this report to designakes an express request unde	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority
			Date of issuance of this report 03 July 2006 (03.07.2006)
	The International Bures 34, chemin des Colo 1211 Geneva 20, Sw	ombettes	Authorized officer Ellen Moyse
Facsi	mile No. +41 22 338 82 70		e-mail: pi05@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

irom the INTERN		AL SEARCHIN	G AUTHOR	rry.		`	Apr.
Γo:						PCT	anslation
						ITTEN OPINION OF TH ONAL SEARCHING AU	IE
						(PCT Rule 43bis.1)	
					Date of mailing (duy/month/yeur)	See Form PCT/	/ISA/210
		gent's lile referenc	e		FOR FURTHER A	CTION	
	0191				<u> </u>	See paragraph 2 below	
_		plication No.	400	International filing date (day/month/year)	Priority date (day/month/year	'
PCT	/EP2	2004/0104	402	16.09.2004	•	16.09.2003	
H05	B3/7			o autional classification an			
2.	FURT If a continuous than if this left this restriction of the port of the por	Box No. I Box No. II Box No. III Box No. IV Box No. VI Box No. VII Box No. VIII FHER ACTION Itemand for inter- cational Preliminal his one to be the deternational Search opinion is, as appr n reply together.	Basis of the Priority Non-establi Lack of unit Reasoned stapplicability Certain doc Certain defeation observed the Examining IPEA and the hing Authority ovided above where approthe expiration Form PCT/IS	shment of opinion with re- ty of invention latement under Rule 43bis y; citations and explanatio uments cited ects in the international ap- ervations on the internation minary examination is in Authority ("IPEA") exceptions on IPEA has notified y will not be so considered to be a writte private, with amendments. of 22 months from the private.	gard to novelty, invent I(a)(i) with regard to an exporting such state that the such state that this opinion with that this does not apd the International But I. In opinion of the IPE, the fore the expiration	Il be considered to be a wriply where the applicant choose eau under Rule 66.1 <i>bis</i> (b) tha A. the applicant is invited to so	strial itten opinion of the es an Authority other at written opinions of submit 40 the IPEA a
Name a	nd maili	ing address of the	ISAÆP		Authorized officer		
Facsimi	le No				Telephone No.		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/EP2004/010402

	INTERNATIONAL SEARCHMO W
Box No. I	Basis of this optinion
. With	Basis of this opinion regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under
	102.14.0
2 With inve	Rule 12.3 and 2.5.1(61). In regard to any nucleotide and/or amino ucid sequence disclosed in the international application and necessary to the claimed entire, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	
	in written format
	in computer readable form
e	
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/010402

ENTERWATIONAL SERVICES	
Box No. 111 Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:	
the entire international application	
claims Nos. 16-46	
herause:	
the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (*pecifyn:	
1	
the description, claims or drawings (indicate particular elements below) or said claims Nos.	
the description, claims or drawings (inucture purit into transfer are so unclear that no meaningful opinion could be formed (specify):	
	i
	l
	١
the claims, or said claims Nosare so inadequately supported	
by the description that no meaningful opinion could be formed.	Ì
no international search report has been established for said claims Nos. 16-46	.
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:	
the written form has not been furnished	
does not comply with the standard	1
the computer readable form has not been furnished	
does not comply with the standard	_
the tables related to the nucleutide and/or amino acid sequence tisting, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.	Æ.
See Supplemental Box for further details.	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/010402

INTERNATIONAL SEARCHING ACTIONAL	
b. IV Lack of unity of invention	
In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:	
paid additional fees	1
paid additional fees under protest	Ì
not paid additional fees	
This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant	го рау
additional tees	1
This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is	1
complied with	1
not complied with for the following reasons:	
See supplemental sheet	}-
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4. Consequently, this opinion has been established in respect of the following parts of the international application:	
4. Consequently, this opinion has been established threspect of the	
ail parts	

WRITTEN OPINION OF THE

International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			PCT/EP2004/0104	02		
ov ?		under Du	la 13bis Italfi	with regard to	novelty, inventive step or industrial upplicability:	
- XO	No. V Reasoned statemen citations and explan	nutions sup	porting such	statement		
١.	Statement				•	
	Novelty (N)	Claims	1-15,	27-46		- YES
						- NO
					•	_ YES
	Inventive step (IS)	Claims	1-15,	27-46		
		Claims				- '''
	Industrial applicability (IA)	Claims	1-15,	27-40		NO
		Claims				
2.	Citations and explanations:					
i	See supplement	al she	eet			
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Boxes IV, V

- Reference is made to the following document:
 D1: DE 196 48 199 A (AEG HAUSGERAETE GMBH) 13
 November 1997 (1997-11-13)
- 2. The present application meets the requirements of PCT Article 33(2) because the subject matter of claims 1-15, 27-46 is novel.
- 3. The present application meets the requirements of PCT Article 33(3) because the subject matter of claims 1-15, 27-46 involves an inventive step.
- 4.1 The invention relates to a heating element for a cooking appliance, in particular for electrically heating at least one item to be cooked in a direct or indirect manner (column 1, line 48), comprising at least one support layer (figure 2, reference sign 20, column 2, lines 6-8), at least one heating element layer (column 2, line 7) which at least in sections rests directly or indirectly on the support layer, and at least one electrical contact or conductor element (column 2, line 10), as is known from document D1.

 The closest prior art is document D1, from which the claimed invention differs on account of the
 - characterizing part of claim 1:
 at least one spring-elastic locking element which is
 or can be connected to the electrical contact or
 conductor element, it being possible to at least

Supplemental Box

temporarily bring the electrical contact or conductor element into contact with at least one heating resistor and/or with at least one contact point of the heating element layer by means of the spring force of the springelastic locking element.

4.2 Claim 1 is therefore considered to be novel.

4.3 Inventive step:

The abovementioned characterizing part of claim 1 means it is possible to prevent the material of a soldered connection wearing quickly, in particular when used over a long period of time.

The technical problem can be considered that of forming a strong, long-lasting connection.

The document which was mentioned in the search report does not describe the connection as could be formed in the characterizing part of claim 1.

In document D1, the connection comprises a connection block and sprung contact tongues. A spring-elastic locking element is not used here, but rather a fixed connection block.

It is not possible for a person skilled in the art to imagine an elastic connection block and fixed contact tongues, as in the characterizing part of claim 1, because the strategy of document D1 involves the opposite.

Claim 1 therefore involves an inventive step.

The production method described in independent claim 41 is novel and involves an inventive step because the apparatus as per claim 1 is novel and involves an

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Supplemental Box

inventive step (Guideline C.III.3.7).

- 6. Contrary to PCT Rule 5.1(a)(ii), the description does not cite document D1 or indicate the relevant prior art disclosed therein.
- 7. The vague and imprecise statement on page 20, lines 7-10 of the description creates the impression that the subject matter for which protection is sought does not correspond to the subject matter defined in the claims, and therefore leads to a lack of clarity (PCT Article 6) when the description is used to interpret the claims.
- 8. There is no doubt about the industrial applicability of the subject matter of claims 1-15, 27-46. Claims 1-15, 27-46 therefore meet the requirements of PCT Article 33(4).